

2009 Water Quality Report

Trabuco Canyon
Water District



Your 2009 Water Quality Report

Drinking Water Quality

Since 1990, California water utilities have been providing an annual Water Quality Report to their customers. This year's report covers calendar year 2008 water quality testing and has been prepared in compliance with regulations called for in the 1996 reauthorization of the Safe Drinking Water Act. The reauthorization charged the United States Environmental Protection Agency (USEPA) with updating and strengthening the tap water regulatory program.

USEPA and the California Department of Public Health (CDPH) are the agencies responsible for



establishing drinking water quality standards. To ensure that your tap water is safe to drink, the USEPA and CDPH prescribe regulations that limit the amount of certain

contaminants in water provided by public water systems. CDPH regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. The federal Food and Drug Administration (FDA) also sets regulations for bottled water.

The Trabuco Canyon Water District (TCWD) has many procedures in place to safeguard its water supply. The water delivered to your home meets the standards required by the state and federal regulatory agencies. In some cases, TCWD goes beyond what is required to monitor for additional contaminants that have known health risks.

Unregulated contaminant monitoring helps USEPA determine where certain contaminants occur and whether it needs to establish regulations for those contaminants.



What You Need to Know About Your Water, and How it May Affect You

Sources of Supply

Trabuco Canyon Water District (TCWD) has a variety of water supply sources, including imported wholesale water supplies and local ground water. Imported wholesale water is supplied primarily from TCWD's Dimension Water Treatment Plant which treats imported surface water from the Colorado River. In addition, TCWD also receives imported treated surface water from the Metropolitan Water District of Southern California. Imported treated water primarily consists of blended water from the State Water Project and the Colorado River Aqueduct that is treated by the Metropolitan Water District of Southern California and conveyed to TCWD. In some portions of TCWD, your drinking water is a blend of treated local groundwater and treated imported water. Treated local groundwater primarily comes from the District's Rose Canyon and Lang Well facilities.

Basic Information About Drinking Water Contaminants

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of land or through the layers of the ground it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animal and human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining and farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gasoline stations, urban storm water runoff, agricultural application and septic systems.

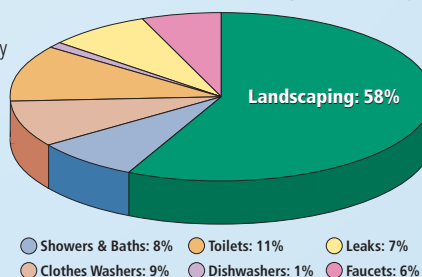
The winter snow pack and spring rains have only temporarily eased the intensity of the state's drought. Reduced water allocations combined with judicially imposed environmental pumping restrictions from the State Water Project in northern California continue to affect southern California's water supply. Water conservation, both indoors and outdoors, has never been more important. Many cities and water districts may implement mandatory conservation measures beginning this summer.



How Residential Water is Used in Orange County

Outdoor watering of lawns and gardens makes up approximately 60% of home water use. By cutting your outdoor watering by 1 or 2 days a week, you can dramatically reduce your overall water use.

Visit www.bewaterwise.com for water saving tips and ideas for your home and business.



- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production or mining activities.

In order to ensure that tap water is safe to drink, USEPA and the CDPH prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. CDPH regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at (800) 426-4791.

Disinfection and Disinfection Byproducts

Disinfection of drinking water was one of the major public health advances in the 20th century. Disinfection was a major factor in reducing waterborne disease epidemics caused by pathogenic bacteria and viruses, and it remains an essential part of drinking water treatment today.

Chlorine disinfection has almost completely eliminated from our lives the risks of microbial waterborne diseases. Chlorine is added to your drinking water at the source of supply (groundwater well or surface water treatment plant). Enough chlorine is added so that it does not completely dissipate through the distribution system pipes. This "residual" chlorine helps to prevent the growth of bacteria in the pipes that carry drinking water from the source into your home.

Questions about your water? Contact us for answers.

For information about this report, or your water quality in general, please contact Hector Ruiz at (949) 858-0277. The Water District Board of Directors meets the third Wednesday of each month at 7:00 p.m. at the District's Administration Building located at 32003 Dove Canyon Drive, Trabuco Canyon, California 92679. The public is encouraged to attend.

For more information about the health effects of the listed contaminants in the following tables, call the U.S. Environmental Protection Agency hotline at (800) 426-4791.

The Trabuco Canyon Water District encourages its customers to visit our website at www.tcwd.ca.gov.

However, chlorine can react with naturally-occurring materials in the water to form unintended chemical byproducts, called disinfection byproducts (DBPs), which may pose health risks. A major challenge is how to balance the risks from microbial pathogens and DBPs. It is important to provide protection from these microbial pathogens while simultaneously ensuring decreasing health risks from disinfection byproducts. The Safe Drinking Water Act requires the USEPA to develop rules to achieve these goals.

Trihalomethanes (THMs) and Haloacetic Acids (HAAs) are the most common and most studied DBPs found in drinking water treated with chlorine. In 1979, the USEPA set the maximum amount of total THMs allowed in drinking water at 100 parts per billion as an annual running average.

Effective in January 2002, the Stage 1 Disinfectants / Disinfection Byproducts Rule lowered the total THM maximum annual average level to 80 parts per billion and added HAAs to the list of regulated chemicals in drinking water. Your drinking water complies with the Stage 1 Disinfectants / Disinfection Byproducts Rule.

In 2003, the USEPA proposed a Stage 2 regulation that will further control allowable levels of DBPs in drinking water without compromising disinfection itself. This regulation was finalized by USEPA in January 2006 and preliminary studies to select Stage 2 DBP sampling locations in our distribution system started in 2008.

Immuno-Compromised People

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people, such as those with cancer who are undergoing chemotherapy, persons who have had organ transplants, people with HIV/AIDS or other immune system disorders, some elderly persons and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers.

Everyone can do something to save water – use drought-tolerant plants; install synthetic turf; install a "smart" irrigation controller; purchase a water-efficient clothes washer; make sure your dishwasher is full before running it; or simply cut back on the water used for daily living: don't run the water while shaving or brushing teeth; take shorter showers; use a broom instead of a hose to clean driveways and sidewalks – the list is endless, and so much of it is very easy to do. Visit the websites listed on the next page for information on California's water supply situation and what you can do to preserve this precious resource.



The Quality of Your Water is Our Primary Concern

Drinking Water Fluoridation

Fluoride has been added to U.S. drinking water supplies since 1945. Of the 50 largest cities in the U.S., 43 fluoridate their drinking water. In December 2007, the Metropolitan Water District of Southern California joined a majority of the nation's public water suppliers in adding fluoride to drinking water in order to prevent tooth decay. In line with recommendations from the CDPH, as well as the U.S. Centers for Disease Control and Prevention, Metropolitan adjusted the natural fluoride level in imported treated water from the Colorado River and State Project water to the optimal range for dental health of 0.7 to 1.3 parts per million. Our local water is not supplemented with fluoride. Fluoride levels in drinking water are limited under California state regulations at a maximum dosage of 2 parts per million.

There are many places to go for additional information about the fluoridation of drinking water.

- U.S. Centers for Disease Control and Prevention
1-800-232-4636
www.cdc.gov/Oralhealth
- American Dental Association
www.ada.org/public/topics/fluoride
- American Water Works Association
www.awwa.org

For more information about Metropolitan's fluoridation program, please contact Edgar G. Dymally at (213) 217-5709 or at edymally@mwdh2o.com.

What are Water Quality Standards?

Drinking water standards established by USEPA and CDPH set limits for substances that may affect consumer health or aesthetic qualities of drinking water. The chart in this report shows the following types of water quality standards:

- Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible.
- Maximum Residual Disinfectant Level (MRDL):** The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.
- Secondary MCLs** are set to protect the odor, taste, and appearance of drinking water.
- Primary Drinking Water Standard:** MCLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.
- Regulatory Action Level (AL):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.

How are Contaminants Measured?

Water is sampled and tested throughout the year. Contaminants are measured in:

- parts per million (ppm) or milligrams per liter (mg/L)
- parts per billion (ppb) or micrograms per liter (µg/L)
- parts per trillion (ppt) or nanograms per liter (ng/L)

What is a Water Quality Goal?

In addition to mandatory water quality standards, USEPA and CDPH have set voluntary water quality goals for some contaminants. Water quality goals are often set at such low levels that they are not achievable in practice and are not directly measurable. Nevertheless, these goals provide useful guideposts and direction for water management practices. The chart in this report includes three types of water quality goals:

- Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by USEPA.
- Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by USEPA.
- Public Health Goal (PHG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Cryptosporidium

Cryptosporidium is a microscopic organism that, when ingested, can cause diarrhea, fever, and other gastrointestinal symptoms. The organism comes from animal and/or human wastes and may be in surface water. The Metropolitan Water District of Southern California tested their source water and treated surface water for *Cryptosporidium* in 2008 but did not detect it. If it ever is detected, *Cryptosporidium* is eliminated by an effective treatment combination including sedimentation, filtration and disinfection.

The USEPA and the federal Centers for Disease Control guidelines on

appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from USEPA's Safe Drinking Water hotline at (800) 426-4791 between 9 a.m. and 5 p.m. Eastern Time (6 a.m. to 2 p.m. in California).

Want Additional Information? There's a wealth of information on the internet about Drinking Water Quality and water issues in general. Some good sites — both local and national — to begin your own research are:

- Trabuco Canyon Water District: www.tcwd.ca.gov
- Municipal Water District of Orange County: www.mwdoc.com
- Orange County Water District: www.ocwd.com
- Water Education Foundation: www.watereducation.org
- Metropolitan Water District of Southern California: www.mwdh2o.com
- California Department of Public Health: www.cdph.ca.gov/certlic/drinkingwater
- U.S. Environmental Protection Agency: www.epa.gov/safewater/
- California Department of Water Resources: www.water.ca.gov
- Water Conservation Tips: www.bewaterwise.com • www.wateruseitwisely.com

Contaminants Not Detected

The Trabuco Canyon Water District (TCWD) safeguards its water supply and, as in years past, the water delivered to your home meets the standards required by the state and federal regulatory agencies. In some cases, TCWD goes beyond what is required to monitor for additional contaminants that have known health risks. The contaminants listed below, specifically including Chromium and MTBE, were NOT DETECTED in TCWD'S water during the most recent sampling dates.

1,1,1-Trichloroethane	1-Phenylpropane	cis-1,2-Dichloroethene	Nitrogen Phosphorous
1,1,2,2-Tetrachloroethane	2,2-Dichloropropane	cis-1,3-Dichloropropene	Pesticides
1,1,2-Trichloroethane	2-Chlorotoluene	Cyanide	Simazine
1,1-Dichloroethane	4-Chlorotoluene	Diazinon	Styrene
1,1-Dichloroethene	Atrazine	Dibromomethane	Tetrachloroethene
1,2,3-Trichlorobenzene	Benzene	Dimethoate	Thallium
1,2,3-Trichloropropane	Beryllium	Dichlorofluoromethane	Thiobencarb
1,2,4-Trichlorobenzene	Bromobenzene	Ethyl benzene	Toulene
1,2,4-Trimethylbenzene	Bromochloromethane	Fecal Coliform & E.Coli	Total Coliform Bacteria
1,2-Dichlorobenzene	Bromomethane	Isopropylbenzene	trans-1,2-Dichloroethene
1,2-Dichloroethane	Cadmium	Mercury	trans-1,3-Dichloropropene
1,2-Dichloropropane	Carbon Tetrachloride	Methyl-t-butyl ether	Trichloroethene
1,3,5-Trimethylbenzene	Chlorobenzene	Methylene chloride	Trichlorofluoromethane
1,3-Dichlorobenzene	Chloroethane	n-Butylbenzene	Trichlorotrifluoroethane
1,3-Dichloropropane	Chloromethane	Naphthalene	Vinyl Chloride
1,4-Dichlorobenzene	Chromium	Nickel	Xylenes

2008 Metropolitan Water District of Southern California Treated Surface Water

Chemical	MCL	PHG, or (MCLG)	Average Amount	Range of Detections	MCL Violation?	Typical Source of Contaminant
Radiologicals – Tested in 2008						
Alpha Radiation (pCi/L)	15	(0)	5.6	3.8 – 9.3	No	Erosion of Natural Deposits
Beta Radiation (pCi/L)	50	(0)	4.3	ND – 6.4	No	Decay of Man-made or Natural Deposits
Uranium (pCi/L)	20	0.42	3.3	2.9 – 3.7	No	Erosion of Natural Deposits
Inorganic Chemicals – Tested in 2008						
Aluminum (ppm)	1	0.6	0.16	0.08 – 0.28	No	Treatment Process Residue, Natural Deposits
Arsenic (ppb)	10	0.004	2.4	ND – 2.9	No	Erosion of Natural Deposits
Barium (ppm)	1	2	0.12	0.11 – 0.12	No	Erosion of Natural Deposits
Fluoride (ppm) treatment-related	Control Range 0.7 – 1.3 ppm Optimal Level 0.8 ppm		0.8	0.6 – 0.9	No	Water Additive for Dental Health
Nitrate as NO ₃ (ppm)	45	45	2.2	ND – 2.6	No	Agriculture Runoff and Sewage
Secondary Standards* – Tested in 2008						
Aluminum (ppb)	200*	600	164	78 – 280	No	Treatment Process Residue, Natural Deposits
Chloride (ppm)	500*	n/a	96	92 – 103	No	Runoff or Leaching from Natural Deposits
Color (color units)	15*	n/a	2	1 – 2	No	Runoff or Leaching from Natural Deposits
Odor (threshold odor number)	3*	n/a	2	2	No	Naturally-occurring Organic Materials
Specific Conductance (µmho/cm)	1,600*	n/a	947	837 – 1,080	No	Substances that Form Ions in Water
Sulfate (ppm)	500*	n/a	212	170 – 272	No	Runoff or Leaching from Natural Deposits
Total Dissolved Solids (ppm)	1,000*	n/a	569	505 – 668	No	Runoff or Leaching from Natural Deposits
Turbidity (ntu)	5*	n/a	0.05	0.04 – 0.05	No	Runoff or Leaching from Natural Deposits
Unregulated Chemicals – Tested in 2008						
Alkalinity, total as CaCO ₃ (ppm)	Not Regulated	n/a	110	100 – 121	n/a	Runoff or Leaching from Natural Deposits
Boron (ppb)	Not Regulated	n/a	140	130 – 150	n/a	Runoff or Leaching from Natural Deposits
Calcium (ppm)	Not Regulated	n/a	61	55 – 72	n/a	Runoff or Leaching from Natural Deposits
Hardness, total as CaCO ₃ (ppm)	Not Regulated	n/a	257	226 – 300	n/a	Runoff or Leaching from Natural Deposits
Hardness, total (grains/gal)	Not Regulated	n/a	15	13 – 18	n/a	Runoff or Leaching from Natural Deposits
Magnesium (ppm)	Not Regulated	n/a	25	22 – 29	n/a	Runoff or Leaching from Natural Deposits
N-Nitrosodimethylamine NDMA (ppt)	Not Regulated	n/a	16		n/a	Byproduct of Drinking Water Disinfection
pH (pH units)	Not Regulated	n/a	8.1	8.0 – 8.2	n/a	Hydrogen Ion Concentration
Potassium (ppm)	Not Regulated	n/a	4.5	4.1 – 4.9	n/a	Runoff or Leaching from Natural Deposits
Sodium (ppm)	Not Regulated	n/a	94	85 – 106	n/a	Runoff or Leaching from Natural Deposits
Total Organic Carbon (ppm)	Not Regulated	TT	2.3	1.9 – 2.5	n/a	Various Natural and Man-made Sources
Vanadium (ppb)	Not Regulated	n/a	3.8	3.5 – 4.0	n/a	Runoff or Leaching from Natural Deposits

ppb = parts-per-billion; ppm = parts-per-million; ppt = parts-per-trillion; pCi/L = picoCuries per liter; ntu = nephelometric turbidity units; µmho/cm = micromhos per centimeter; ND = not detected; < = average is less than the detection limit for reporting purposes; MCL = Maximum Contaminant Level; (MCLG) = federal MCL Goal; PHG = California Public Health Goal; n/a = not applicable; TT = treatment technique *Contaminant is regulated by a secondary standard.

Turbidity – combined filter effluent	Treatment Technique	Turbidity Measurements	TT Violation?	Typical Source of Contaminant
1) Highest single turbidity measurement	0.3 NTU	0.05	No	Soil Run-off
2) Percentage of samples less than 0.3 NTU	95%	100%	No	Soil Run-off

Turbidity is a measure of the cloudiness of the water, an indication of particulate matter, some of which might include harmful microorganisms. Low turbidity in Metropolitan's treated water is a good indicator of effective filtration. Filtration is called a "treatment technique" (TT). A treatment technique is a required process intended to reduce the level of contaminants in drinking water that are difficult and sometimes impossible to measure directly.

2008 Trabuco Canyon Water District Dimension Water Treatment Plant

Chemical	MCL	PHG (MCLG)	Average Amount	Range of Detections	MCL Violation?	Most Recent Sampling Date	Typical Source of Contaminant
Radiologicals							
Alpha Radiation (pCi/L)	15	(0)	3.0	3.0	No	2008	Erosion of Natural Deposits
Uranium (pCi/L)	20	0.43	3.9	3.9	No	2008	Erosion of Natural Deposits
Inorganic Chemicals							
Aluminum (ppm)	1 / 0.2*	0.6	0.09	0.09	No	2008	Water Treatment Chemical
Barium (ppm)	1	2	0.14	0.14	No	2008	Erosion of Natural Deposits
Fluoride (ppm)	2	1	0.32	0.32	No	2008	Erosion of Natural Deposits
Secondary Standards*							
Chloride (ppm)	500*	n/a	104	104	No	2008	Erosion of Natural Deposits
Specific Conductance (µmho/cm)	1,600*	n/a	994	994	No	2008	Erosion of Natural Deposits
Sulfate (ppm)	500*	n/a	286	286	No	2008	Erosion of Natural Deposits
Total Dissolved Solids (ppm)	1,000*	n/a	507	507	No	2008	Erosion of Natural Deposits
Turbidity (ntu)	5*	n/a	0.16	0.16	No	2008	Erosion of Natural Deposits

Unregulated Contaminants Requiring Monitoring

Bicarbonate (ppm)	Not Regulated	n/a	160	160	n/a	2008	Erosion of Natural Deposits
Calcium (ppm)	Not Regulated	n/a	80	80	n/a	2008	Erosion of Natural Deposits
Magnesium (ppm)	Not Regulated	n/a	32	32	n/a	2008	Erosion of Natural Deposits
Potassium (ppm)	Not Regulated	n/a	5.3	5.3	n/a	2008	Erosion of Natural Deposits
pH (units)	Not Regulated	n/a	7.9	7.9	n/a	2008	Erosion of Natural Deposits
Sodium (ppm)	Not Regulated	n/a	101	101	n/a	2008	Erosion of Natural Deposits
Total Alkalinity (ppm)	Not Regulated	n/a	131	131	n/a	2008	Erosion of Natural Deposits
Total Hardness (ppm as CaCO ₃)	Not Regulated	n/a	340	340	n/a	2008	Erosion of Natural Deposits

ppb = parts-per-billion; **ppm** = parts-per-million; **pCi/L** = picoCuries per liter; **ntu** = nephelometric turbidity units; **ND** = not detected; **n/a** = not applicable; **<** = average is less than the detection limit for reporting purposes; **MCL** = Maximum Contaminant Level; **(MCLG)** = federal MCL Goal; **PHG** = California Public Health Goal; *Contaminant is regulated by a secondary standard to maintain aesthetic qualities (taste, odor, color).

Turbidity – combined filter effluent	Treatment Technique	Turbidity Measurements	TT Violation?	Most Recent Sampling Date	Typical Source of Contaminant
1) Highest single turbidity measurement	1 NTU	0.16	No	2008	Soil Run-off
2) Percentage of samples less than 0.2 NTU	95%	100%	No	2008	Soil Run-off

Turbidity is a measure of the cloudiness of the water, an indication of particulate matter, some of which might include harmful microorganisms. Low turbidity in Trabuco Canyon Water District's treated water is a good indicator of effective filtration. Filtration is called a "treatment technique" (TT). A treatment technique is a required process intended to reduce the level of contaminants in drinking water that are difficult and sometimes impossible to measure directly.

2008 Trabuco Canyon Water District Groundwater Quality

Chemical	MCL	PHG (MCLG)	Average Amount	Range of Detections	MCL Violation?	Most Recent Sampling Date	Typical Source of Contaminant
Inorganic Chemicals							
Fluoride (ppm)	2	1	0.19	0.17 – 0.20	No	2008	Erosion of Natural Deposits
Nitrate as NO ₃ (ppm)	45	45	2.4	ND – 8.8	No	2008	Fertilizers, Septic Tanks
Secondary Standards*							
Chloride (ppm)	500*	n/a	24	20 – 28	No	2008	Erosion of Natural Deposits
MBAS – surfactants (ppb)	500*	n/a	<50	ND – 57	No	2008	Municipal and Industrial Waste Discharge
Specific Conductance (µmho/cm)	1,600*	n/a	634	617 – 651	No	2008	Erosion of Natural Deposits
Sulfate (ppm)	500*	n/a	161	156 – 165	No	2008	Erosion of Natural Deposits
Total Dissolved Solids (ppm)	1,000*	n/a	415	369 – 461	No	2008	Erosion of Natural Deposits
Turbidity (ntu)	5*	n/a	0.25	0.14 – 0.35	No	2008	Erosion of Natural Deposits

Unregulated Contaminants Requiring Monitoring

Bicarbonate (ppm)	Not Regulated	n/a	196	194 – 198	n/a	2008	Erosion of Natural Deposits
Calcium (ppm)	Not Regulated	n/a	90	89 – 91	n/a	2008	Erosion of Natural Deposits
Magnesium (ppm)	Not Regulated	n/a	21	21 – 22	n/a	2008	Erosion of Natural Deposits
pH (pH units)	Not Regulated	n/a	7.1	7.1 – 7.2	n/a	2008	Erosion of Natural Deposits
Potassium (ppm)	Not Regulated	n/a	1.6	1.5 – 1.8	n/a	2008	Erosion of Natural Deposits
Sodium (ppm)	Not Regulated	n/a	26	23 – 28	n/a	2008	Erosion of Natural Deposits
Total Alkalinity (ppm as CaCO ₃)	Not Regulated	n/a	161	159 – 162	n/a	2008	Erosion of Natural Deposits
Total Hardness (ppm as CaCO ₃)	Not Regulated	n/a	310	300 – 320	n/a	2008	Erosion of Natural Deposits

ppb = parts-per-billion; **ppm** = parts-per-million; **pCi/L** = picoCuries per liter; **ntu** = nephelometric turbidity units; **ND** = not detected; **n/a** = not applicable; **<** = average is less than the detection limit for reporting purposes; **MCL** = Maximum Contaminant Level; **(MCLG)** = federal MCL Goal; **PHG** = California Public Health Goal; **µmho/cm** = micromho per centimeter. *Contaminant is regulated by a secondary standard to maintain aesthetic qualities (taste, odor, color).

2008 Trabuco Canyon Water District Distribution System Water Quality

Disinfection Byproducts	MCL (MRDL/MRDLG)	Average Amount	Range of Detections	MCL Violation?	Typical Source of Contaminant
Total Trihalomethanes (ppb)	80	52	2.0 – 106	No	Byproducts of chlorine disinfection
Haloacetic Acids (ppb)	60	18	ND – 35	No	Byproducts of chlorine disinfection
Chlorine Residual (ppm)	(4 / 4)	1.4	0.35 – 2.2	No	Disinfectant added for treatment
Aesthetic Quality					
Color (color units)	5*	<1	ND – 1	No	Erosion of natural deposits
Turbidity (ntu)	5*	0.07	0.05 – 0.43	No	Erosion of natural deposits

Twelve locations in the distribution system are tested quarterly for total trihalomethanes and haloacetic acids; sixteen locations are tested monthly for color, odor and turbidity. Color and odor were not detected in any of the 35 samples collected. Copper was detected in each of the 35 samples, but none exceeded the action level.

MRDL = Maximum Residual Disinfectant Level; **ND** = not detected; **MRDLG** = Maximum Residual Disinfectant Level Goal; **ntu** = nephelometric turbidity units. *Contaminant is regulated by a secondary standard to maintain aesthetic qualities (taste, odor, color).

Lead and Copper Action Levels at Residential Taps

	Action Level (AL)	Health Goal	90th Percentile Value	Sites Exceeding AL / Number of Sites	AL Violation?	Typical Source of Contaminant
Lead (ppb)	15	2	ND<5	0 / 35	No	Corrosion of household plumbing
Copper (ppm)	1.3	0.17	0.12	0 / 35	No	Corrosion of household plumbing

Every three years, at least 30 residences are tested for lead and copper at-the-tap. The most recent set of samples was collected in 2006. Lead was not detected in any of the 35 samples collected. Copper was detected in each of the 35 samples, but none exceeded the action level. The regulatory action level is the concentration which, if exceeded in more than ten percent of the homes tested, triggers treatment or other requirements that a water system must follow. Trabuco Canyon Water District complied with the lead and copper action levels.

Recent regulatory actions to protect endangered fish species have restricted water deliveries from Southern California to draw down even further its storage reservoirs, like Diamond Valley Lake, near Hemet.



Water conservation doesn't have to inconvenience our lives to be effective. Simple changes in how we do our daily tasks can have a tremendous impact on our water usage. A little effort can save a lot of water.

Source Water Assessments Imported (Metropolitan) Water Assessment

In December 2002, Metropolitan Water District of Southern California completed its source water assessment of its Colorado River and State Water Project supplies. Colorado River supplies are considered to be most vulnerable to recreation, urban/storm water runoff, increasing urbanization in the watershed and wastewater. State Water Project supplies are considered to be most vulnerable to urban/storm water runoff, wildlife, agriculture, recreation and wastewater. A copy of the assessment can be obtained by contacting Metropolitan by phone at (213) 217-6850.

Groundwater Assessment

An assessment of the drinking water sources for Trabuco Canyon Water District was completed in November 2002. The water sources are considered most vulnerable to contaminants associated with historic gas stations, septic systems, agricultural/irrigation wells, above and below ground storage tanks and mining activities. There have been no contaminants detected in TCWD'S water associated with these activities. The only detections of contaminants are associated with naturally occurring salts, naturally occurring radiochemicals, and low level organics. A copy of the complete assessment is available at Trabuco Canyon Water District. You may request that a summary of the assessment be sent to you by contacting Hector Ruiz at (949) 858-0277.

This report contains important information
about your drinking water.

Translate it,
or speak with someone
who understands it.



Este informe contiene información
muy importante sobre su agua potable.

Tradúzcalo o hable con alguien
que lo entienda bien.



**Trabuco Canyon
Water District**

32003 Dove Canyon Drive
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